

Package: rwoSLite (via r-universe)

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Type Package

Title R Client for WOS Lite API

Version 0.0.1

Description R Client for the WOS Lite API.

URL <https://github.com/frbcesab/rwoSLite>

BugReports <https://github.com/frbcesab/rwoSLite/issues>

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Repository <https://frbcesab.r-universe.dev>

RemoteUrl <https://github.com/FRBCesab/rwoSLite>

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Contents

| | |
|---------------------------|---|
| wos_get_records | 2 |
| wos_search | 3 |

| | |
|--------------|----------|
| Index | 5 |
|--------------|----------|

wos_get_records

Download references that match a given WOS query

Description

This function sends a query to the Web Of Science Lite API (<https://developer.clarivate.com/apis/woslite>) and returns references that match this query.

To learn how to write a WOS query, users can read the WOS documentation available at: <https://images.webofknowledge.com/images/help/WOK/contents.html>. A list of WOS field tags is available at: https://images.webofknowledge.com/images/help/WOS/hs_wos_fieldtags.html.

It's strongly recommended to use the function `wos_search` before to have an idea on how many records you will download.

Important: Due to WOS LITE API limitations, the total number of records cannot exceed 100,000.

Usage

```
wos_get_records(query, database = "WOS", limit = NULL, sleep = 1)
```

Arguments

| | |
|----------|--|
| query | a character of length 1. The query to send to the WOS lite API. Visit the WOS documentation at: https://images.webofknowledge.com/images/help/WOK/contents.html on how to write a WOS query. |
| database | a character of length 1. One among BCI (BIOSIS Citation Index), BIOABS (Biological Abstracts), BIOSIS (BIOSIS Previews), CCC (Current Contents Connect), DCI (Data Citation Index), DIIDW (Derwent Innovations Index), MEDLINE (Medline), WOS (Web of Science Core Collection), ZOOREC (Zoological Record), and WOK (all databases). Default is WOS (all databases). |
| limit | an numeric of length 1. The number of records to retrieve. Must be < 100,000 (API limit). Default is NULL (all possible records will be retrieved). |
| sleep | an numeric of length 1. To not stress the WOS LITE API, a random number between 0 and sleep will be picked to suspend queries. |

Value

A data.frame with n rows (where n is the total number of references) and the following 21 variables: ut: the unique identifier of the reference in the Web of Science system; doc_type: the document type; title: the title of the reference; authors: the authors of the reference; book_authors: the book authors (if applicable); book_group_authors: the book group authors (if applicable); keywords: the authors keywords; source: the title of the source (journal, book, etc.) in which the reference was published; volume: the volume number; issue: the issue number; pages: the pages range in the source; no_article: the article number; published_date: the published date; published_year: the published year; supplement_number: the supplement number (if applicable); special_issue: SI in case of a special issue (if applicable); book_series_title: the book

series title (if applicable); doi: the Digital Object Identifier; eissn: the Electronic International Standard Identifier Number; issn: the International Standard Identifier Number; isbn: International Standard Book Number.

Examples

```
## Not run:
## Download references of one author ----
query <- "AU=(\"Casajus N\")"
wos_search(query)
refs <- wos_get_records(query)
refs <- wos_get_records(query, limit = 1)

## End(Not run)
```

wos_search

Retrieve the number of records that match a given WOS query

Description

This function sends a query to the Web Of Science Lite API (<https://developer.clarivate.com/apis/woslite>) and returns the total number of records that match this query.

To learn how to write a WOS query, users can read the WOS documentation available at: <https://images.webofknowledge.com/images/help/WOK/contents.html>. A list of WOS field tags is available at: https://images.webofknowledge.com/images/help/WOS/hs_wos_fieldtags.html.

Usage

```
wos_search(query, database = "WOS")
```

Arguments

| | |
|----------|--|
| query | a character of length 1. The query to send to the WOS lite API. Visit the WOS documentation at: https://images.webofknowledge.com/images/help/WOK/contents.html on how to write a WOS query. |
| database | a character of length 1. One among BCI (BIOSIS Citation Index), BIOABS (Biological Abstracts), BIOSIS (BIOSIS Previews), CCC (Current Contents Connect), DCI (Data Citation Index), DIIDW (Derwent Innovations Index), MEDLINE (Medline), WOS (Web of Science Core Collection), ZOOREC (Zoological Record), and WOK (all databases). Default is WOS (all databases). |

Value

The total number of records (integer of length 1) that match the query.

Examples

```
## Not run:
## Search in TOPIC an exact expression ----
query <- "TS=\"salmo salar\""
wos_search(query)

## Search in TOPIC an exact expression and another term ----
query <- "TS=(\"salmo salar\" AND conservation)"
wos_search(query)

## Search for a specific year ----
query <- "TS=(\"salmo salar\" AND conservation) AND PY=2021"
wos_search(query)

## Search for a time span ----
query <- "TS=(\"salmo salar\" AND conservation) AND PY=2010-2021"
wos_search(query)

## Search for an author ----
query <- "AU=(\"Casajus N\")"
wos_search(query)

## End(Not run)
```

Index

wos_get_records, 2

wos_search, 2, 3